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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,449	09/11/2003	Warren E. Cory	X-1214 US	4907
²⁴³⁰⁹ XILINX, INC	7590 06/19/2007	1	EXAM	INER
•	DEPARTMENT		NGUYEN, TANH Q	
SAN JOSE, CA			ART UNIT	PAPER NUMBER
			2182	
			MAIL DATE	DELIVERY MODE
			06/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1		Application No.	Applicant(s)		
	•	10/660,449	CORY ET AL.		
	Office Action Summary	Examiner	Art Unit		
•	· · · · · · · · · · · · · · · · · · ·	1			
	The MAILING DATE of this communication app	Tanh Q. Nguyen	the correspondence address		
Period fo	• •				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl vill apply and will expire SIX (6) MONTH , cause the application to become ABAN	ATION. by be timely filed IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).		
Status		•			
1)⊠	Responsive to communication(s) filed on 09/1	1/03 and interview on 03/21/	<u>′07</u> .		
2a) <u></u> ☐	This action is FINAL . 2b) ☐ This action is non-final.				
3)	Since this application is in condition for allowar				
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	11, 453 O.G. 213.		
Dispositi	on of Claims				
5) 6) 7)	Claim(s) <u>1-43</u> is/are pending in the application. 4a) Of the above claim(s) <u>11-30</u> is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-10 and 31-43</u> are subject to restrict	vn from consideration.	ent.		
Applicati	on Papers				
9)	The specification is objected to by the Examine	er.			
10)	The drawing(s) filed on is/are: a) ☐ acc				
	Applicant may not request that any objection to the	- · · · · · · · · · · · · · · · · · · ·			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex		•		
Priority u	under 35 U.S.C. § 119				
12) a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Apprite and the comments have been recurred to the comments of the comments in t	olication No eceived in this National Stage		
Attachmen	t(s)				
2)	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	Paper No(s)/	mmąry (PTO-413) Mail Date ormal Patent Application		

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Election/Restrictions

1. During a telephone conversation between examiner Vineeta S. Panwalkar and the attorney for applicant - Justin Liu (Reg. No. 51,959) on March 21, 2007, a provisional election was made without traverse to prosecute the invention comprising claims 1-10, 31-43. Affirmation of this election must be made by applicant in replying to this Office action. Claims 11-30 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

- 2. Upon further review, restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-10, drawn to a circuit, classified in class 711, subclass 1.
 - II. Claims 31-43, drawn to a method, classified in class 710, subclass 52.
- 3. The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process as claimed (Invention II) can be practiced by a circuit that includes a counter for determining the amount of data in the buffer. In addition, the apparatus as claimed (Invention I) can be used to practice a process that requires read and write clocks, and additionally affecting operation of a read pointer.

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4. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction were not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction were not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction were not required because the inventions have acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

5. Invention II, <u>if elected</u>, further contains claims directed to the following patentably distinct species:

Species 1A (claims 31-35, 37) directed to defining a nominal fill based on a latency performance, and conditioning comprising padding/omitting data to be output.

Species 1B (claims 31, 33-37) directed to defining a nominal fill based on a programmed value in a configuration register, and conditioning comprising padding/omitting data to be output.

Species 1C (claims 31, 33-35, 37-38) directed to defining a nominal fill based on

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a packet length, and conditioning comprising padding/omitting data to be output.

Species 1D (claims 31, 33-35, 37, 39) directed to defining a nominal fill based on a frequency difference between a read clock and a write clock, and conditioning comprising padding/omitting data to be output.

Species 1E (claims 31, 33-35, 37, 40) directed to defining a nominal fill based on an identified protocol, and conditioning comprising padding/omitting data to be output.

Species 1F (claims 31, 33-35, 37, 41) directed to defining a nominal fill based on a determined maximum skew, and conditioning comprising padding/omitting data to be output.

Species 2A (claims 31-33, 37, 42-43) directed to defining a nominal fill based on a latency performance, and conditioning comprising halting or decrementing advancement of a write pointer.

Species 2B (claims 31, 33, 36-37, 42-43) directed to defining a nominal fill based on a programmed value in a configuration register, and conditioning comprising halting or decrementing advancement of a write pointer.

Species 2C (claims 31, 33, 37-38, 42-43) directed to defining a nominal fill based on a packet length, and conditioning comprising halting or decrementing advancement of a write pointer.

Species 2D (claims 31, 33, 37, 39, 42-43) directed to defining a nominal fill based on a frequency difference between a read clock and a write clock, and conditioning comprising halting or decrementing advancement of a write pointer.

Species 2E (claims 31, 33, 37, 40, 42-43) directed to defining a nominal fill based

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on an identified protocol, and conditioning comprising halting or decrementing advancement of a write pointer.

Species 2F (claims 31, 33, 37, 41-43) directed to defining a nominal fill based on a determined maximum skew, and conditioning comprising halting or decrementing advancement of a write pointer.

The species are independent or distinct because there are different modes of operations (six different modes for defining a nominal fill and two different modes for conditioning data), and further because there is no overlap in scope between the different modes of operation.

Applicant is required under 35 U.S.C. 121 to further elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable - <u>if Invention II is elected</u>. Currently, 31, 33 and 37 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

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MPEP § 809.02(a).

6. Applicant is advised that the reply to this requirement must include (i) an election of a species or invention to be examined to be complete, even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Conclusion

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tanh Q. Nguyen whose telephone number is 571-272-4154. The examiner can normally be reached on M-F 9:30AM-7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Huynh can be reached on 571-272-4147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TANH Q NGUYEN
PRIMARY EXAMINER
TECHNOLOGY CENTER 2100

June 11, 2007

TQN June 11, 2007